**Notes: Training Objectives for Imperial College Electrical Engineering Undergraduate Students**

Please assess the student against the following training objectives at the end of the placement. Please highlight the level which most matches your assessment of the student.

**Personal development**

**Self Management — the ability to control and direct own training, career and efforts**

5 - Outstanding in all aspects

4 - Confident, able to negotiate own requirements and accept responsibility.

3 - Works towards personal goals using available resources, with minimum guidance.

2 - Accepts responsibility but requires prompting to work towards goals.

1 - Has difficulty identifying personal goals and appropriate resources.

**Communication skills — the ability to give a complete and concise account of a situation, either orally or written**

5 - Outstanding in all aspects

4 - Always clear and accurate, high standard of presentation; can communicate with

people at all levels.

3 - Reasonable presentation and generally accurate in content; rarely has difficulty

making a point.

2 - Usually easy to understand; has difficulty presenting to people at all levels.

1 - Tendency to be inaccurate and has difficulty conveying information in any form.

**Comprehension —the ability to understand and interpret instructions**

5 - Outstanding in all aspects

4 - Understands well at first attempt, readily grasps new ideas and concepts.

3 - Does not normally require additional information or explanation to complete a task.

2 - Sometimes requires additional information or explanation.

1 - Frequently needs additional information or explanation and takes time to grasp

new ideas and concepts.

**Personal/social skills — the ability to work with others and gain respect**

5 - Outstanding in all aspects

4 - Works well in a group or team and establishes good relationships with people at all

levels.

3 - Works in a group or team, good relationships at own level.

2 - Attempts to mix and make a contribution.

1 - Prefers to work alone and has difficulty establishing good relationships.

**Technical development**

**Engineering practice — the ability to apply sound engineering practices**

5 - Outstanding in all aspects

4 - Fully able to select materials, processes and components to customer specification.

3 - Able to advise on suitable materials, processes and components.

2 - Able to select and specify from organisation’s own capabilities of manufacture.

1 - Has difficulty selecting suitable materials, processes and components.

**Engineering principles — the ability to apply sound engineering principles and technical judgement**

5 - Outstanding in all aspects

4 - Fully able to apply engineering principles to design, development and research activities.

3 - Able to apply established procedures.

2 - Needs some guidance on the application of engineering principles.

1 - Needs frequent guidance on the application of suitable engineering principles.

**Problem solving — the ability to originate new and improved uses of people and resources**

4 - Excellent problem solver; can propose innovative solutions.

3 - Good understanding and useful innovator.

2 - Puts forward some ideas but has difficulty with decisions.

1 - Usually able to follow set procedures but shows little capability at proposing new

solutions.

**Technical achievement — the ability to translate knowledge and skills into achieving results**

4 - Quickly develops skills and achieves excellent results without prompting.

3 - Achieves well with little supervision.

2 - Average ability in achieving results but hesitant with little initiative.

1 - Usually needs supervision and assistance to achieve tasks.

Professional and Business development

**Commercial and financial implications — the ability to see engineering in a business environment**

4 - Fully aware of the commercial and financial implications of the task in hand.

3 - Generally aware of implications but sometimes needs clarification on particular points.

2 - Only aware of the business environment when seconded to a commercial department.

1 - Limited awareness of any commercial / financial ramifications.

**Organisation skills — the ability to structure circumstances to a given objective**

4 - Fully aware of the importance of planning and scheduling dependent on changing circumstances and tasks.

3 - Usually organises well but sometimes needs guidance on some areas of planning.

2 - Average ability but needs reminders on critical factors.

1 - Muddled approach and unable to set priorities.